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1645

PATENT  
ATTORNEY DOCKET NO.: UCSD1360-1.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Albani, et al. Art Unit: 1645  
Application No.: 10/001,938 Examiner: Unassigned  
Filed: October 31, 2001  
Title: IMMUNOMODULATORY PEPTIDES DERIVED FROM HEAT SHOCK  
PROTEINS AND USES THEREOF

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

TRANSMITTAL SHEET

Transmitted herewith for the above-identified application please find:

1. Supplemental Information Disclosure Statement (2 pages);
2. Supplemental Form PTO-1449 (4 pages);
3. Forty Two (42) References;
4. Return Receipt Postcard.

CERTIFICATION UNDER 37 CFR §1.8

I hereby certify that the documents referred to as enclosed herein are being deposited with the United States Postal Service as first class mail on this date, October 8, 2003, in an envelope addressed to:  
Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

Debbrah Reeves

(Name of Person Mailing Paper)

*Debbrah Reeves*  
(Signature)

October 8, 2003  
(Date)

Applicant(s): Albani et al.  
Application No.: 10/001,938  
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Page 2

No fee is deemed necessary in connection with the filing of this Supplemental Information Disclosure Statement, because it is being filed prior to the receipt of a first office action on the merits of the above-captioned application. However, if any fee is required, authorization is hereby given to charge the amount of any such fee to Deposit Account No. 50-1355. A duplicate copy of this Transmittal sheet is enclosed.

Respectfully submitted,

Date: 10/8/03

  
\_\_\_\_\_  
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**USPTO CUSTOMER NUMBER 28213**  
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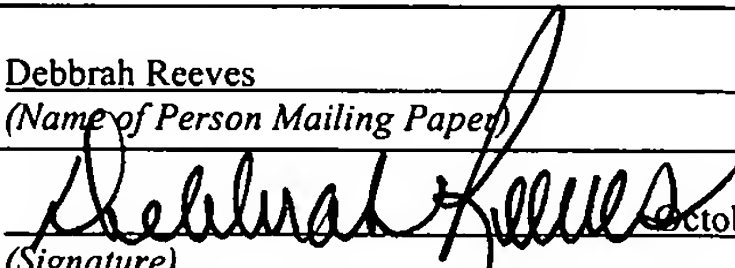
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**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with 37 C.F.R. § 1.97, enclosed are references relating to the above-identified application. For the convenience of the Examiner, these references are listed on the attached Form PTO-1449 and copies are enclosed herewith.

It is respectfully requested that these references be considered in the examination of this application and their consideration be made of written record in the application file.

CERTIFICATION UNDER 37 CFR §1.8	
I hereby certify that the documents referred to as enclosed herein are being deposited with the United States Postal Service as first class mail on this date October 8, 2003, in an envelope addressed to: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.	
Debbrah Reeves (Name of Person Mailing Paper)	
 (Signature)	October 8, 2003 (Date)

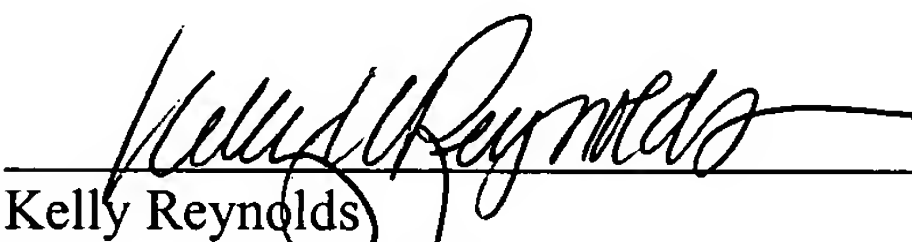
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Respectfully submitted,

Date: \_\_\_\_\_

10/8/03

  
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<b>FORM PTO-1449</b> U.S. Department of Commerce Patent and Trademark Office	<b>Docket No.:</b> UCSD1360-1 (101668-62)	<b>Application No.:</b> 10/001,938
	<b>Applicants:</b> Albani et al.	
<b>[SUPPLEMENTAL] INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	<b>Filing Date:</b> October 31, 2001	<b>Group Art Unit:</b> 1645



### U.S. PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA	4,654,419	03/31/1987	Vaughan et al.			
	AB	4,683,295	07/28/1987	Carson			
	AC	4,732,757	03/22/1988	Stolle et al.			
	AD	5,116,725	05/26/1992	Vaughan et al.			
	AE	5,310,732	05/10/1994	Carson et al.			
	AF	5,541,164	07/30/1996	Carson et al.			
	AG	5,728,385	03/17/1998	Classen			
	AH	5,773,570	06/30/1988	Carson et al.			
	AI	5,891,435	04/06/1999	Muir et al.			
	AJ	5,992,567	07/13/1999	Au-Young et al.			
	AK	5,993,803	11/30/1999	Cohen et al.			
	AL	6,007,821	12/28/1999	Srivastava et al.			

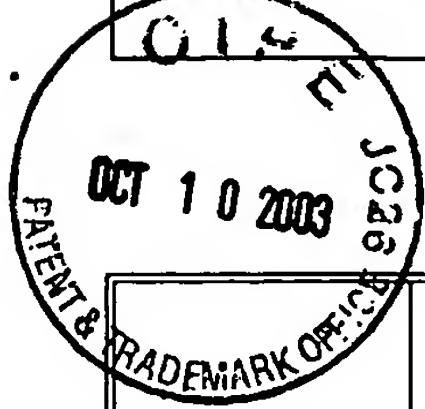
### FOREIGN PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION (YES/NO)
	AM	WO90/14835	12/13/1990	WIPO			
	AN	WO95/31984	11/30/1995	WIPO			

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)**

AP	Bonnin, D., et al., "MHC-Derived Peptides Drive Positive T Cell Selection in the Thymus: from a Physiological System to an HLA DRB1*0401 Transgenic Mouse Model for Rheumatoid Arthritis?", <i>Arthritis and Rheumatism</i> , Vol. 39, No. 9 Suppl., Pg. S160, Oct. 1996
AQ	Auger, I., et al., "HLA-DR4 and HLA-DR10 Motifs that Carry Susceptibility to Rheumatoid Arthritis Bind 70-kD Heat Shock Proteins," <i>Nature Medicine</i> , Vol. 2, No. 3, Pgs. 306-310, March 1996
AR	Albani, et al., "Genetics and Environmental Factors in the Immune Pathogenesis of Rheumatoid Arthritis," <i>Rheumatic Disease Clinics of North America</i> , 18/4:729-740, 1992.
AS	Stastney, P., et al., "Immunogenetics of Rheumatoid Arthritis and Juvenile Arthritis", <i>Recenti Progressi in Medicina</i> , Vol. 82, No. 7-8, Pgs. 409-416, 1991
AT	Nepom, G., "Prediction of Susceptibility to Rheumatoid Arthritis by Human Leukocyte Antigen Genotyping" <i>Rheumatic Disease Clinics of North America</i> , Vol. 18, No. 4, Pgs. 785-792, November, 1992
AU	Weyand, C., et al., "The Influence of HLA-DRB1 Genes on Disease Severity in Rheumatoid Arthritis," <i>Annals of Internal Medicine</i> , Vol. 117, No. 10, Pgs. 801-806, November 15, 1992
AV	Fairchild, P., et al., "Peptide-MHC Interaction in Autoimmunity," <i>Current Opinion in Immunology</i> , Vol. 4, pgs. 748-753, 1992
AW	Life, P.F., et al., "Synovial Fluid Antigen-Presenting Cells Unmask Peripheral Blood T Cell Responses to Bacterial Antigens in Inflammatory Arthritis," <i>Clin. Exp. Immunol.</i> Vol. 79, Pgs. 189-194, 1990
AX	Van Den Broek, M.F., et al., "Protection Against Streptococcal Cell Wall-Induced Arthritis by Pretreatment with the 65-kD Mycobacterial Heat Shock Protein," <i>J. Exp. Med.</i> , Vol. 170, Pgs. 449-466, August, 1989

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AY	Anderton, S.M., et al. "Activation of T Cells Recognizing Self 60-kD Heat Shock Protein Can Protect Against Experimental Arthritis," <i>J. Exp. Med.</i> , Vol. 181, Pgs. 943-952, March 1995
AZ	Albani, S., et al., "A Multistep Molecular Mimicry Hypothesis for the Pathogenesis of Rheumatoid Arthritis," <i>Immunology Today</i> , Vol. 17, No. 10, Pgs. 466-470, October, 1996
BA	Anderton et al, "Differential Mycobacterial 65-kDa Heat Shock Protein T Cell Epitope Recognition after Adjuvant Arthritis-Inducing or Protective Immunization Protocols <sup>1</sup> ," <i>J. Immunology</i> 152:3656-64, 1994
BB	Albani et al, "HLA Binding Studies Support a Role for the QKRAA Susceptibility Sequence to Rheumatoid Arthritis (RA) in Positive Selection and Activation of Pathogenic T Lymphocytes," <i>Arthritis and Rheumatism</i> , 38/9 Suppl., Pg. S181, Abstract#173, 1995
BC	Plotkin, S.A., et al., "New Technologies for Making Vaccines," <i>Vaccines</i> , Pgs. 568-575, 1988
BD	Albani, S., et al., "Molecular Basis for the Association Between HLA DR4 and Rheumatoid Arthritis. From the Shared Epitope Hypothesis to a Peptidic Model of Rheumatoid Arthritis," <i>Clin. Biochem.</i> Vol. 25, Pgs. 209-212, 1992
BE	La Cava, A., et al., "The QKRAA Disease Susceptibility Sequence for Rheumatoid Arthritis (RA) is a B Cell Epitope Shared by the Epstein-Barr Virus (EBV) Protein gp110 and the E. Coli Heat Shock Protein dnaJ Possible Implications for Disease Pathogenesis," <i>Arthritis &amp; Rheum.</i> 36(9) Suppl. Pgs. S127 Abstract 1993
BF	Asseldonk, M., et al., "Cloning, Nucleotide Sequence, and Regulatory Analysis of the <i>Lactococcus Lactis</i> dnaJ Gene," <i>Journal of Bacteriology</i> , 175(6), Pgs. 1637-1644, March 1993
BG	Bardwell, J.C.A., et al., "The Nucleotide Sequence of the <i>Escherichia coli</i> K12 dnaJ+ Gene," <i>The Journal of Biological Chemistry</i> , Vol. 261, No. 4, Pgs. 1782-1785, February 5, 1986

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	BH	Ohki, M., et al., "Nucleotide Sequence of the <i>Escherichia coli dnaJ</i> Gene and Purification of the Gene Product*", The Journal of Biological Chemistry, Vol. 261, No. 4, Pgs. 1778-1781, 1986
	BI	Albani, S., et al., "The Susceptibility Sequence to Rheumatoid Arthritis is a Cross-Reactive B Cell Epitope Shared by the <i>Escherichia Coli</i> Heat Shock Protein dnaJ and the Histocompatibility Leukocyte Antigen DRB10401 Molecule," <i>J. Clin. Invest.</i> , Vol. 89, Pgs. 327-331, 1992
	BJ	van Eden, W., et al., "Cloning of the Mycobacterial Epitope Recognized by T Lymphocytes in Adjuvant Arthritis," <i>Nature</i> , Vol. 331, Pgs. 171-173, January 14, 1988
	BK	Silver, P.A., et al. "Eukaryotic DnaJ Homologs and the Specificity of Hsp70 Activity," <i>Cell</i> , Vol. 74, Pgs. 5-6, July 16, 1993
	BL	Zuber et al., "Cloning, Sequencing and Expression of the <i>dnaJ</i> gene of <i>Coxiella Burnetii</i> ," <i>Gene</i> , Vol. 152 Pgs. 99-102, 1995
	BM	DeGraeff-Meeder, E.R., et al., "Recognition of Human 60kD Heat Shock Protein by Mononuclear Cells from Patients with Juvenile Chronic Arthritis," <i>The Lancet</i> , Vol. 337, Pgs. 1368-1372, June 8, 1991
	BN	Brackertz et al, "OM-8980 in Rheumatoid Arthritis: A 6-Month Double Blind Placebo Controlled Multicenter Study," <i>Journal of Rheumatology</i> , Vol. 16, Pgs. 19-23, 1989
	BO	Marsh, S.G.E., et al, "HLA Class II Nucleotide Sequences, 1991," <i>Tissue Antigens</i> , Vol. 37, Pgs. 181-189, 1991
	BP	Albani, S., et al., "Immune Responses to the <i>Escherichia Coli</i> dnaJ Heat Shock Protein in Juvenile Rheumatoid Arthritis and their Correlation with Disease Activity," <i>The Journal of Pediatrics</i> , Vol. 124, No. 4, Pgs. 561-565, April 1994
	BQ	GenCore Accession # HHECDJ

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